

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121020\
 Data File : VN065065.D
 Acq On : 11 Dec 2020 3:24
 Operator : JC/MD
 Sample : PB133501ZHE#13
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133501ZHE#13

Quant Time: Dec 11 04:47:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 10 16:04:22 2020
 Response via : Initial Calibration

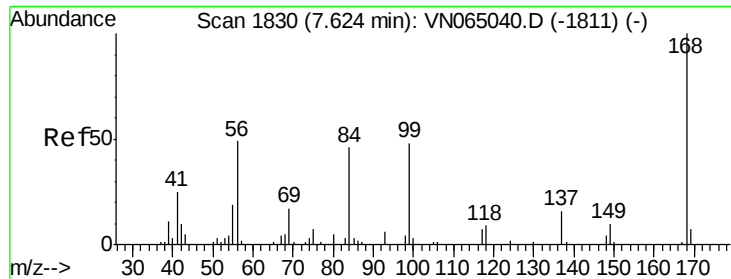
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	163764	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	314654	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	338201	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	140696	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		7.99	65	106795	54.77	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	109.54%	
35) Dibromofluoromethane		7.55	113	100170	48.12	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.24%	
50) Toluene-d8		10.06	98	402219	50.36	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.72%	
62) 4-Bromofluorobenzene		12.38	95	148310	54.18	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	108.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	61	0.258	ug/l #	72
14) Allyl chloride	4.49	41	688	0.301	ug/l #	27
16) Acetone	3.78	43	16949	24.508	ug/l	99
20) Methylene Chloride	4.50	84	55633	31.578	ug/l	98
25) 2-Butanone	6.80	43	1931	2.025	ug/l	98
31) Cyclohexane	7.62	56	2964	2.672	ug/l #	11
36) 1,1-Dichloropropene	7.63	75	11582	4.316	ug/l #	47
37) Ethyl Acetate	6.80	43	1931	0.791	ug/l #	67
38) Carbon Tetrachloride	7.62	117	15224	5.339	ug/l #	18
43) Isopropyl Acetate	8.13	43	14287	3.522	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	941	0.418	ug/l #	45
48) Methyl methacrylate	9.15	41	3400	1.766	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3169	1.307	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	23660	6.652	ug/l #	65
57) 1,3-Dichloropropane	10.73	76	15682	4.420	ug/l #	42
59) 2-Hexanone	10.74	43	197043	112.785	ug/l #	51
74) N-amyl acetate	11.85	43	9014	2.675	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	69948	25.523	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3119	0.396	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.38	75	69948	72.644	ug/l #	15

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
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Acq On    : 11 Dec 2020    3:24
Operator  : JC/MD
Sample    : PB133501ZHE#13
Misc      : 5.00mL/MSVOA_N/WATER
ALS Vial  : 31    Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN065065.D

Acq: 11 Dec 2020 3:24

Instrument :

MSVOA_N

ClientSampleId :

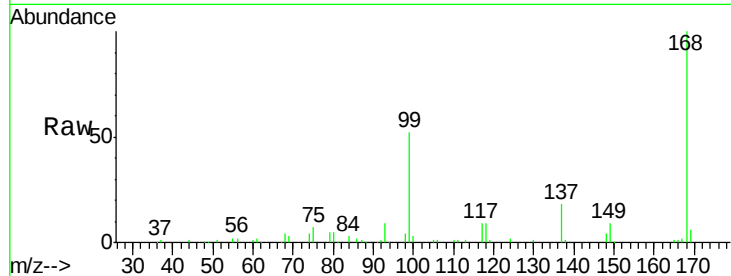
PB133501ZHE#13

Tgt Ion: 168 Resp: 163764

Ion Ratio Lower Upper

168 100

99 51.6 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

40000

20000

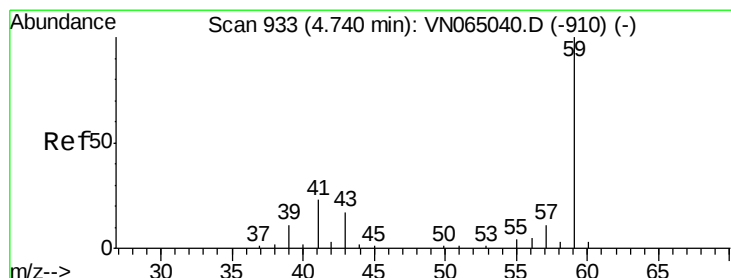
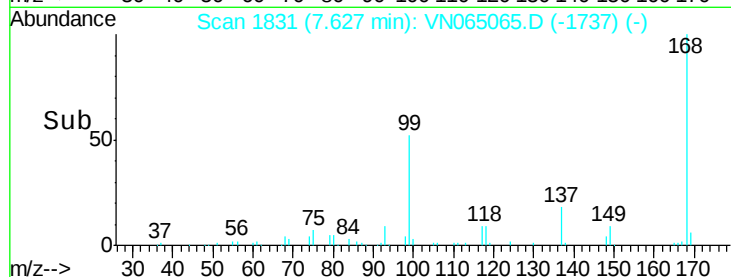
0

Time-->

7.50

7.60

7.70



#11

Tert butyl alcohol

Concen: 0.258 ug/l

RT: 4.74 min Scan# 932

Delta R.T. -0.00 min

Lab File: VN065065.D

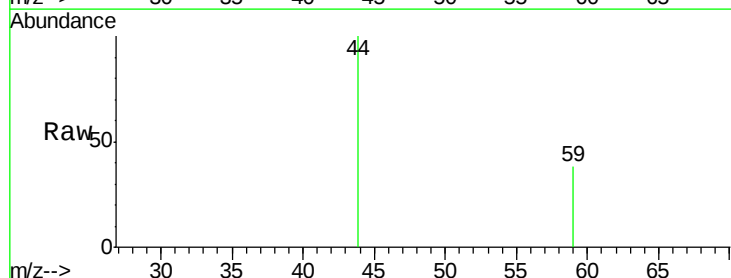
Acq: 11 Dec 2020 3:24

Tgt Ion: 59 Resp: 61

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

150

100

50

0

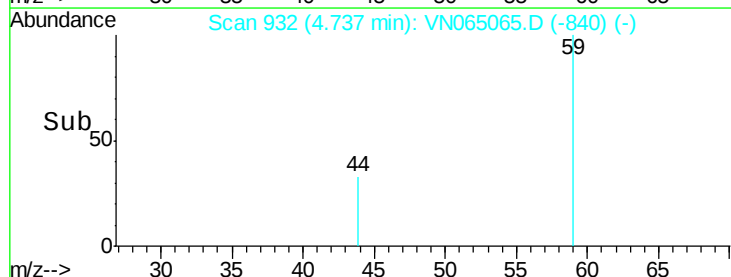
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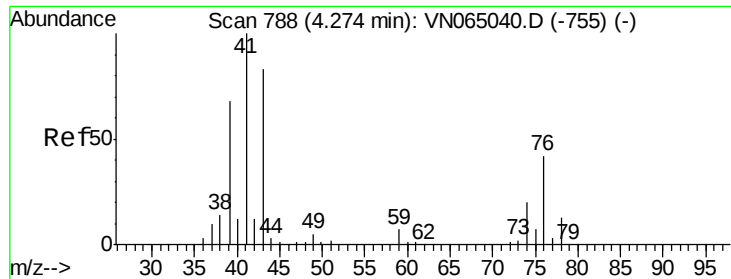
4.73

4.74

4.75

4.75

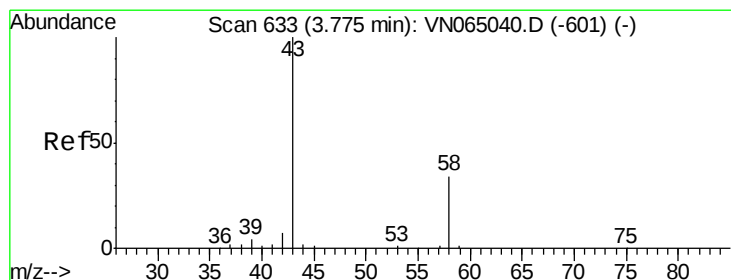
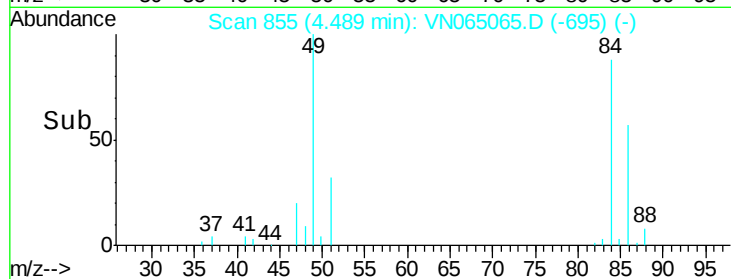
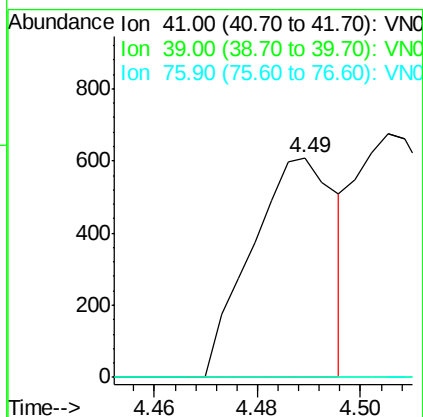
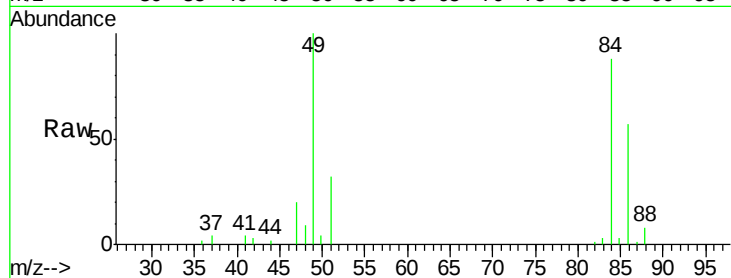




#14
 Allyl chloride
 Concen: 0.301 ug/l
 RT: 4.49 min Scan# 855
 Delta R.T. 0.22 min
 Lab File: VN065065.D
 Acq: 11 Dec 2020 3:24

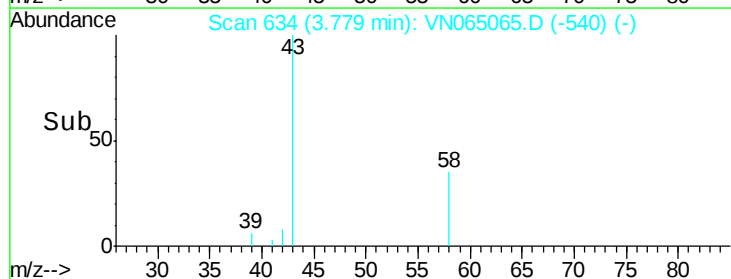
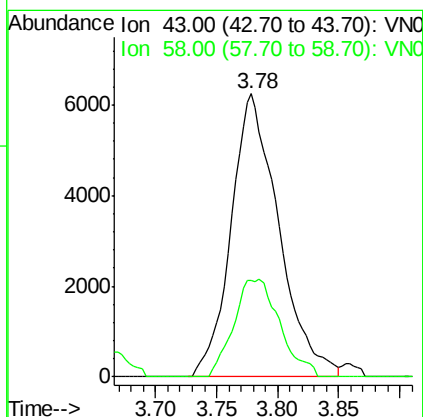
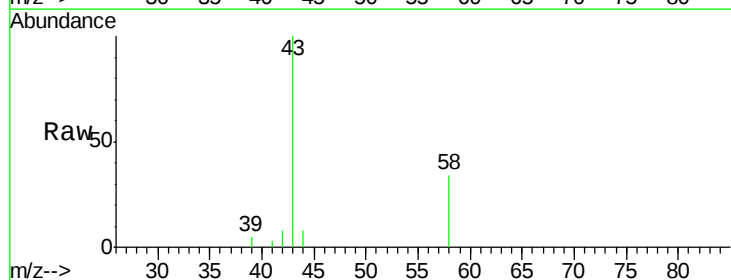
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133501ZHE#13

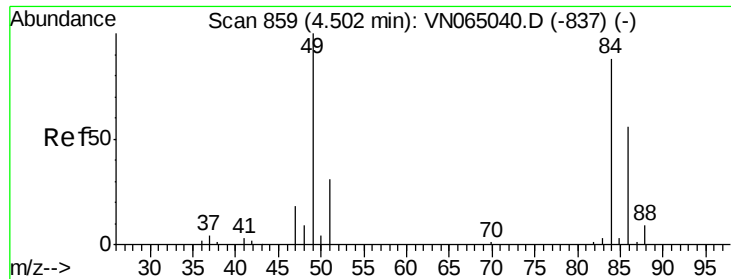
Tgt Ion: 41 Resp: 688
 Ion Ratio Lower Upper
 41 100
 39 0.0 49.0 73.6#
 76 0.0 29.6 44.4#



#16
 Acetone
 Concen: 24.508 ug/l
 RT: 3.78 min Scan# 634
 Delta R.T. 0.00 min
 Lab File: VN065065.D
 Acq: 11 Dec 2020 3:24

Tgt Ion: 43 Resp: 16949
 Ion Ratio Lower Upper
 43 100
 58 34.0 26.8 40.2

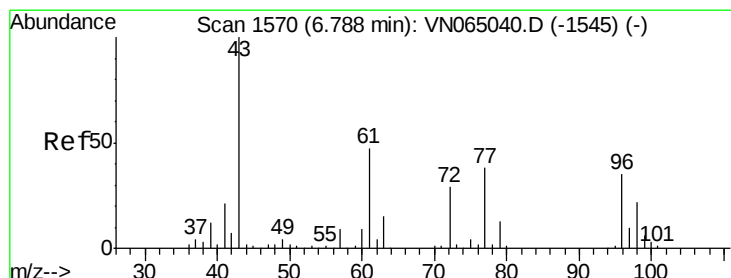
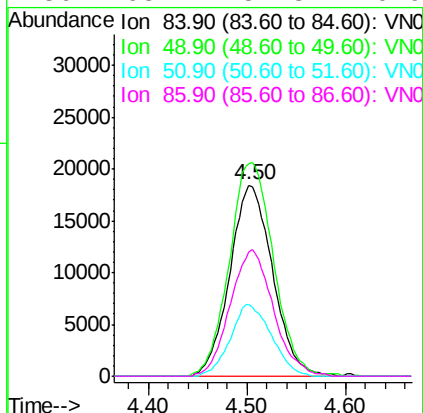
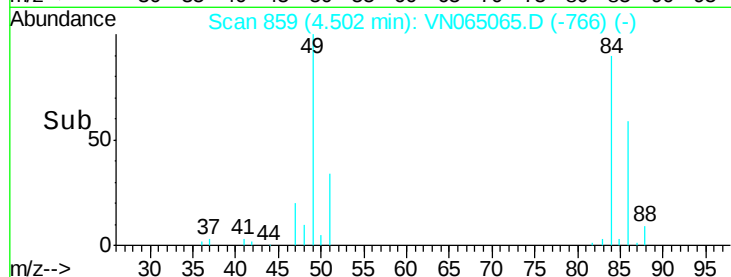
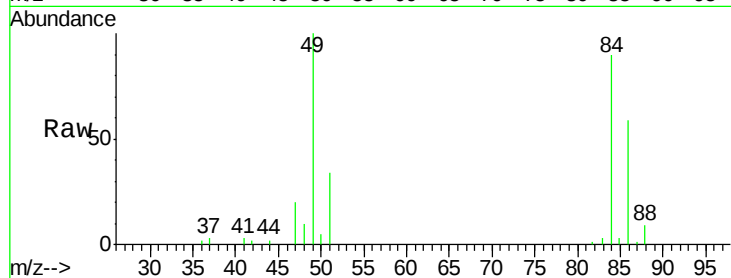




#20
Methylene Chloride
Concen: 31.578 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN065065.D
Acq: 11 Dec 2020 3:24

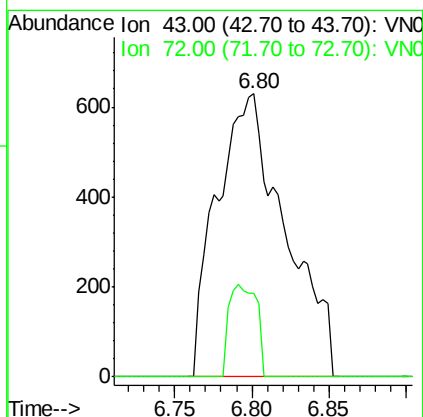
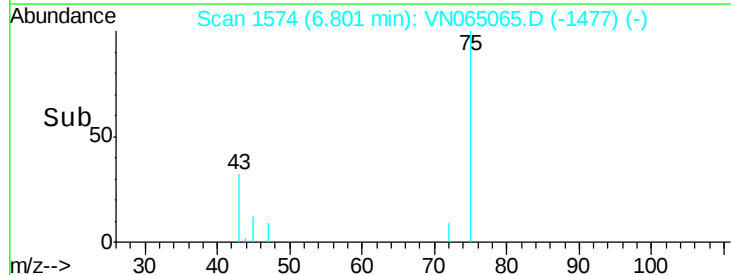
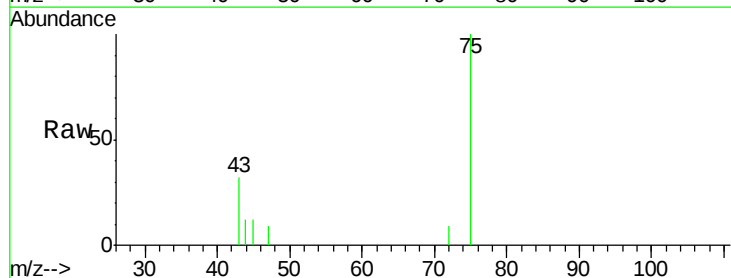
Instrument :
MSVOA_N
ClientSampleId :
PB133501ZHE#13

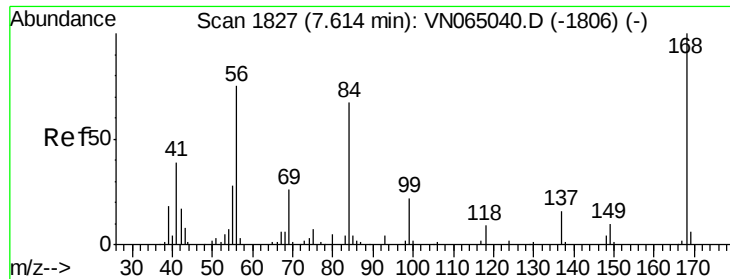
Tgt Ion:	84	Resp:	55633
Ion	Ratio	Lower	Upper
84	100		
49	111.4	90.8	136.2
51	37.6	28.1	42.1
86	65.2	51.3	76.9



#25
2-Butanone
Concen: 2.025 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VN065065.D
Acq: 11 Dec 2020 3:24

Tgt Ion:	43	Resp:	1931
Ion	Ratio	Lower	Upper
43	100		
72	29.4	22.9	34.3

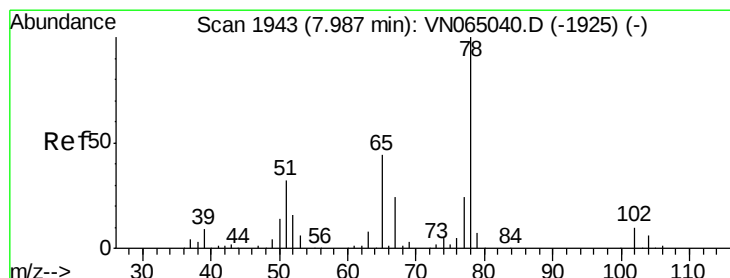
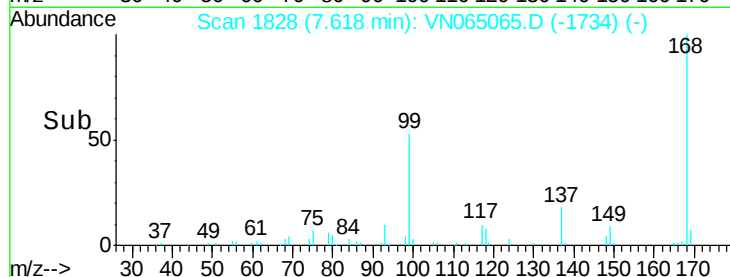
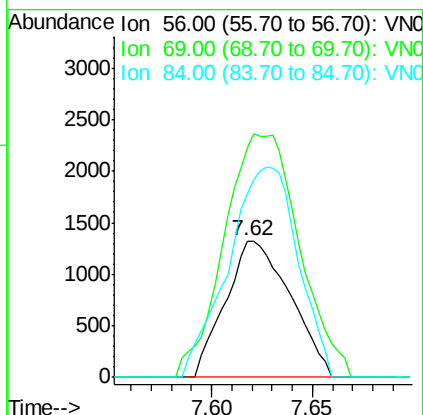
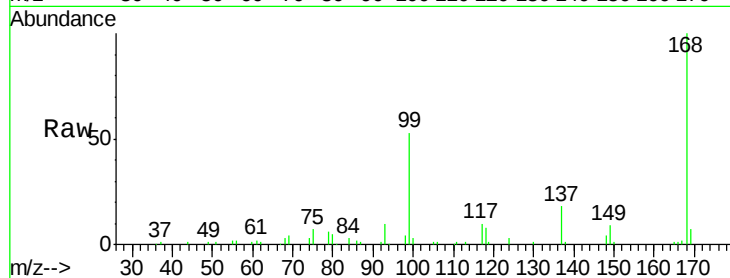




#31
Cyclohexane
Concen: 2.672 ug/l
RT: 7.62 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN065065.D
Acq: 11 Dec 2020 3:24

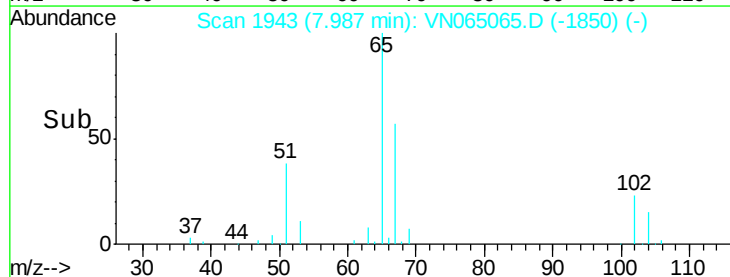
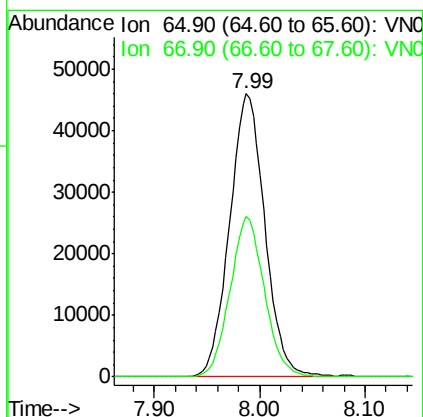
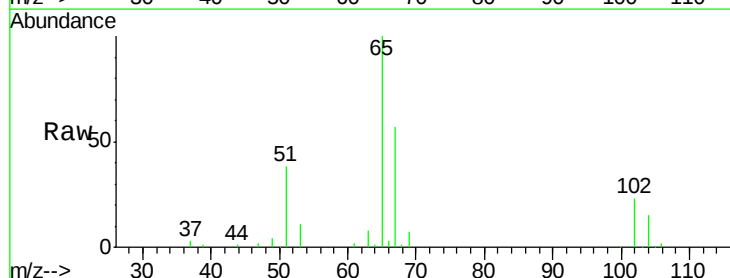
Instrument :
MSVOA_N
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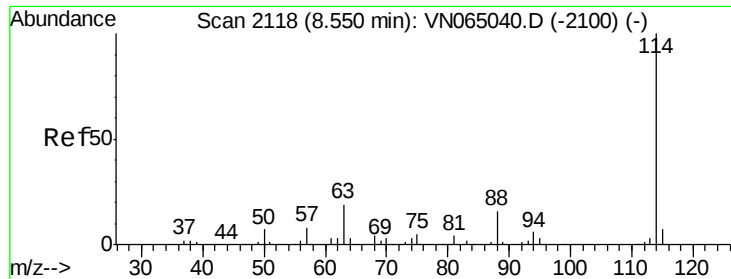
Tgt Ion: 56 Resp: 2964
Ion Ratio Lower Upper
56 100
69 150.2 27.5 41.3#
84 135.0 72.4 108.6#



#33
1,2-Dichloroethane-d4
Concen: 54.774 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN065065.D
Acq: 11 Dec 2020 3:24

Tgt Ion: 65 Resp: 106795
Ion Ratio Lower Upper
65 100
67 55.0 0.0 108.4

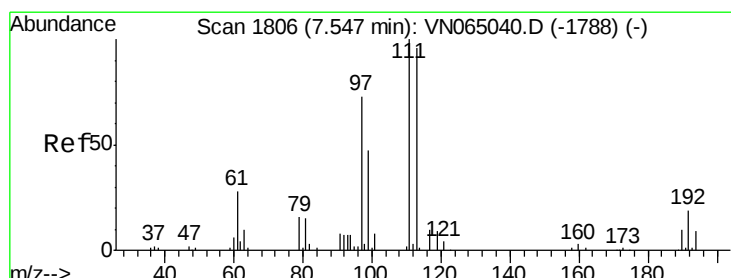
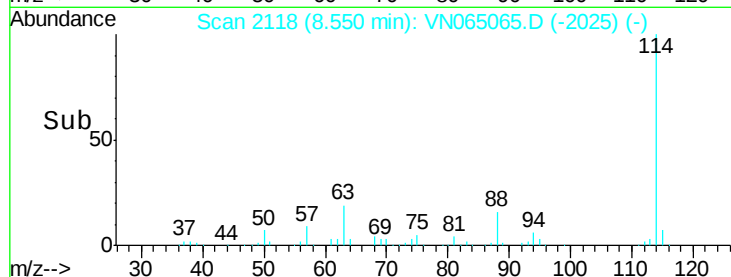
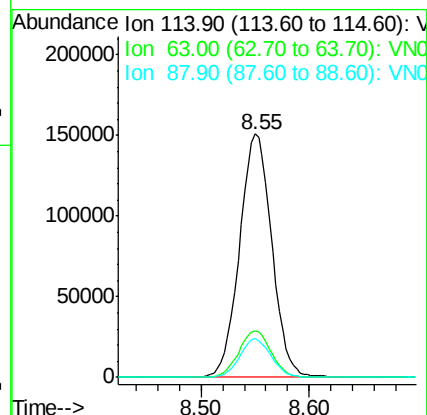
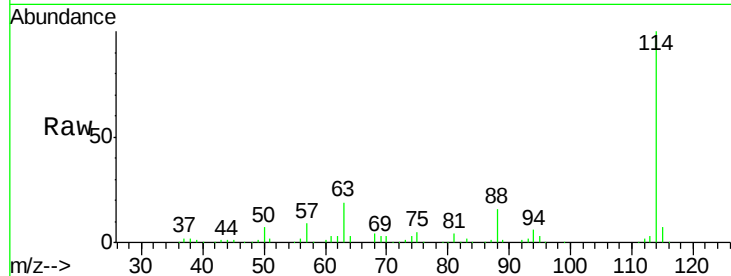




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN065065.D
Acq: 11 Dec 2020 3:24

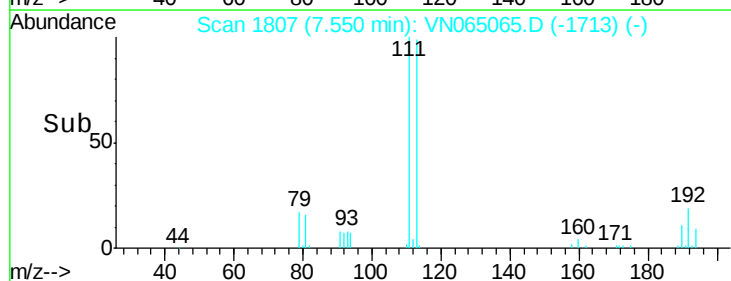
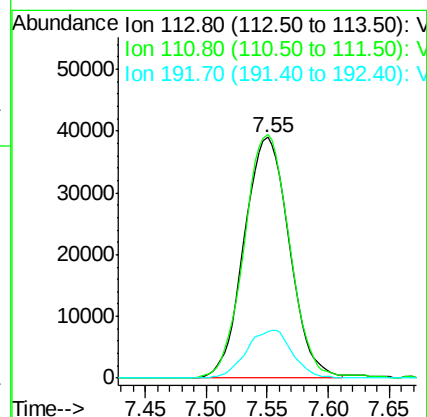
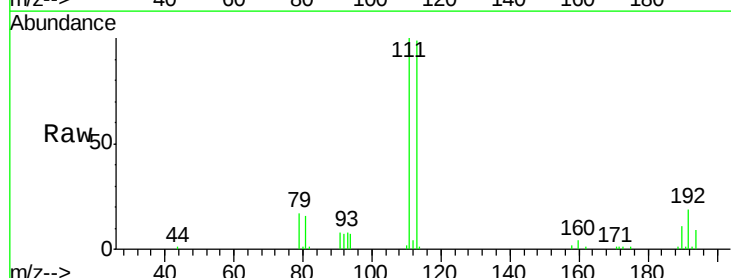
Instrument :
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ClientSampleId :
PB133501ZHE#13

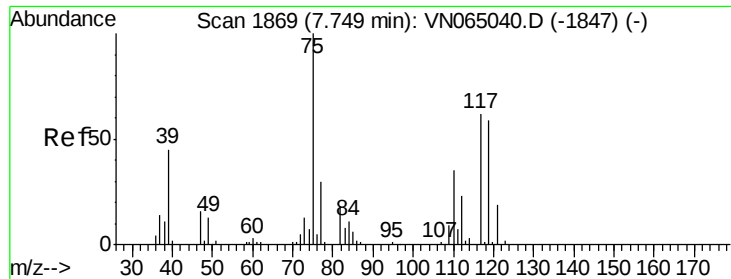
Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	38.2
88	15.7	0.0	31.6



#35
Dibromofluoromethane
Concen: 48.120 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN065065.D
Acq: 11 Dec 2020 3:24

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	83.4	125.0
192	20.2	16.2	24.2

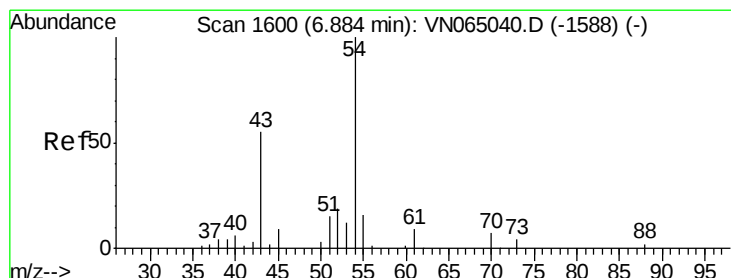
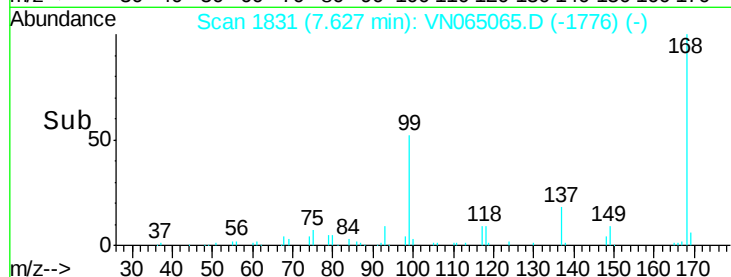
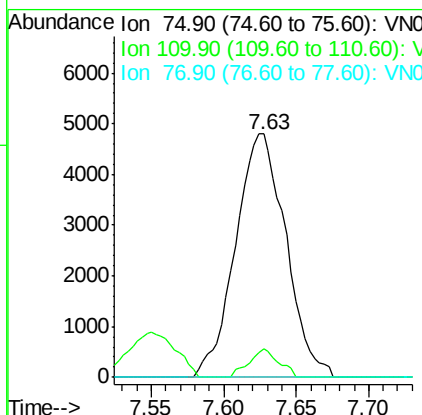
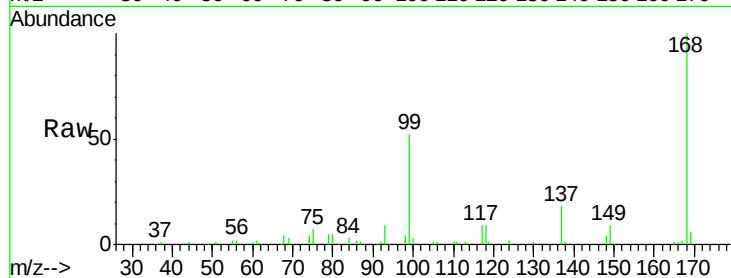




#36
 1,1-Dichloropropene
 Concen: 4.316 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.12 min
 Lab File: VN065065.D
 Acq: 11 Dec 2020 3:24

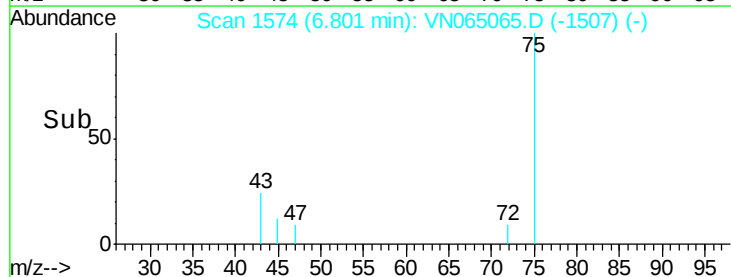
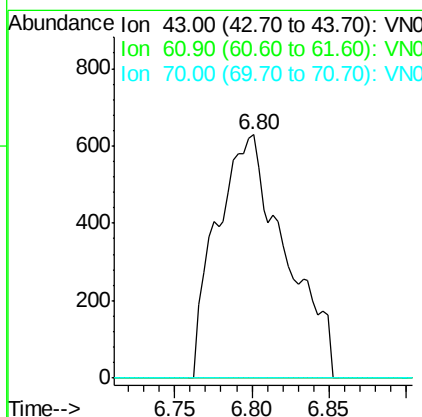
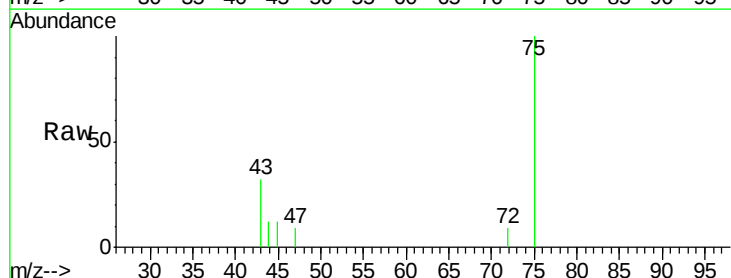
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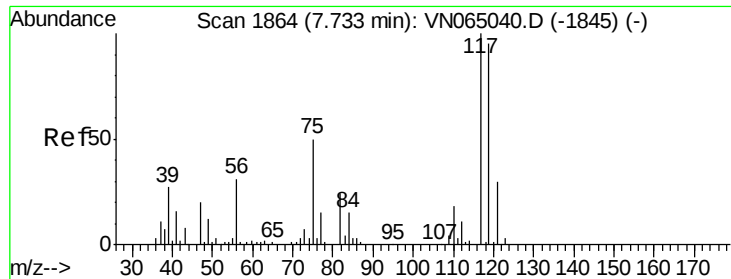
Tgt Ion: 75 Resp: 11582
 Ion Ratio Lower Upper
 75 100
 110 6.9 18.1 54.1#
 77 0.0 24.5 36.7#



#37
 Ethyl Acetate
 Concen: 0.791 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. -0.08 min
 Lab File: VN065065.D
 Acq: 11 Dec 2020 3:24

Tgt Ion: 43 Resp: 1931
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.9 17.9#
 70 0.0 9.2 13.8#





#38

Carbon Tetrachloride

Concen: 5.339 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN065065.D

Acq: 11 Dec 2020 3:24

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#13

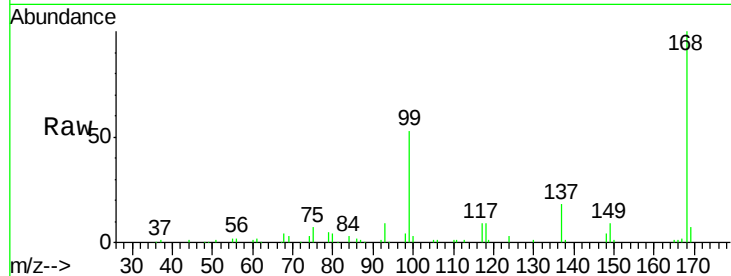
Tgt Ion:117 Resp: 15224

Ion Ratio Lower Upper

117 100

119 7.7 75.9 113.9#

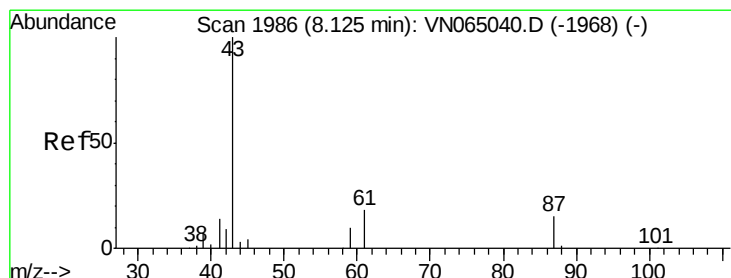
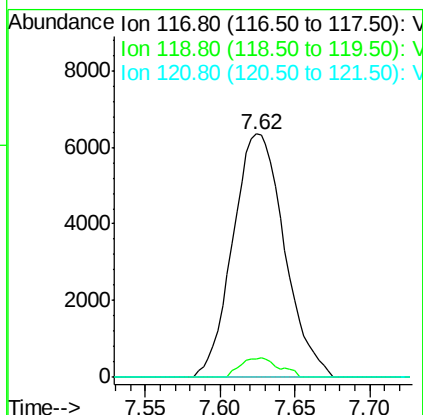
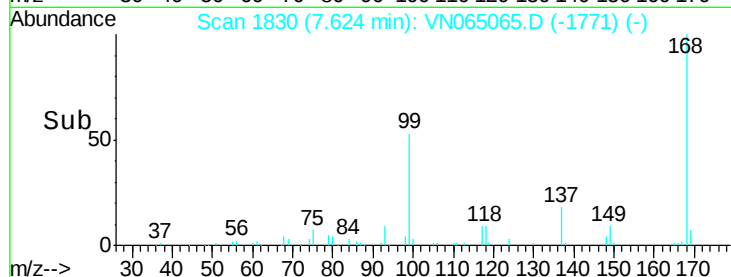
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 3.522 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN065065.D

Acq: 11 Dec 2020 3:24

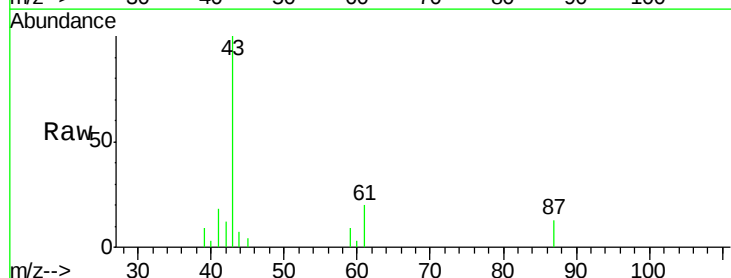
Tgt Ion: 43 Resp: 14287

Ion Ratio Lower Upper

43 100

61 16.9 16.9 25.3

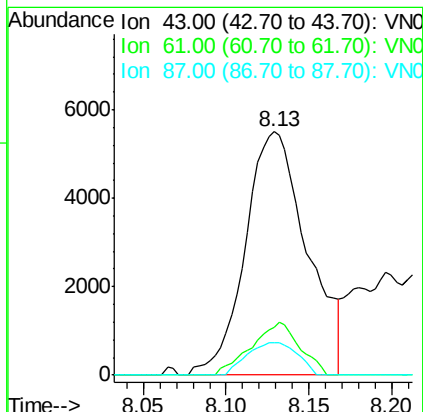
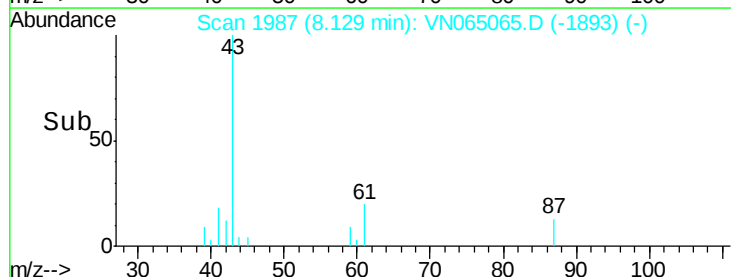
87 10.8 11.4 17.2#

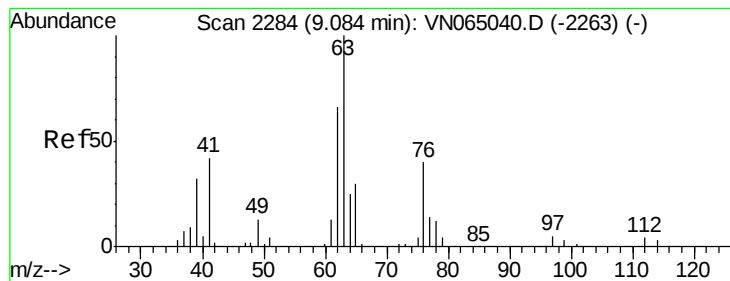


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.418 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN065065.D

Acq: 11 Dec 2020 3:24

Instrument :

MSVOA_N

ClientSampleId :

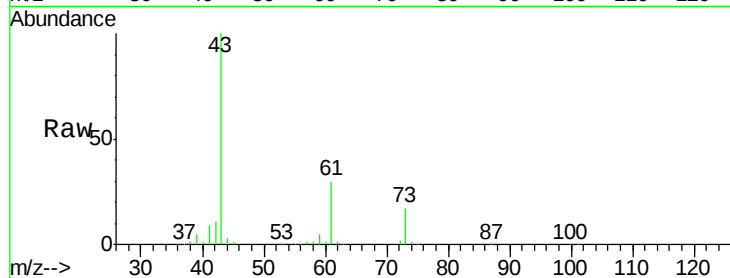
PB133501ZHE#13

Tgt Ion: 63 Resp: 941

Ion Ratio Lower Upper

63 100

65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

500

400

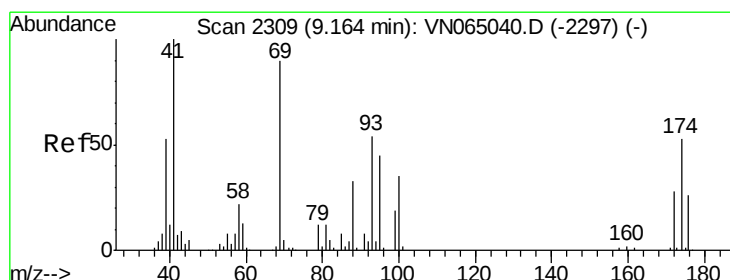
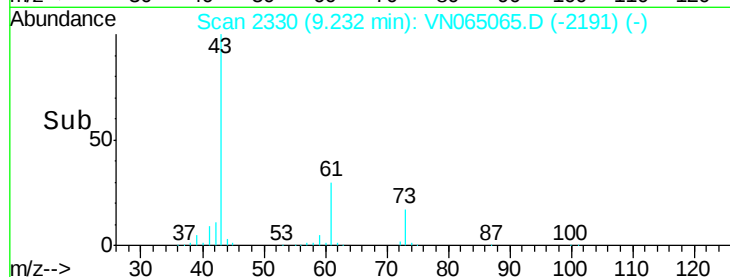
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.766 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN065065.D

Acq: 11 Dec 2020 3:24

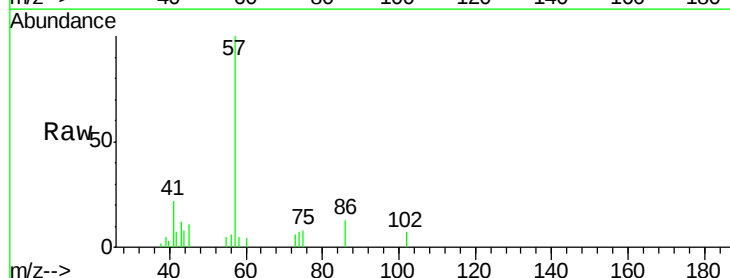
Tgt Ion: 41 Resp: 3400

Ion Ratio Lower Upper

41 100

69 0.0 72.1 108.1#

39 0.0 43.8 65.6#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

40000

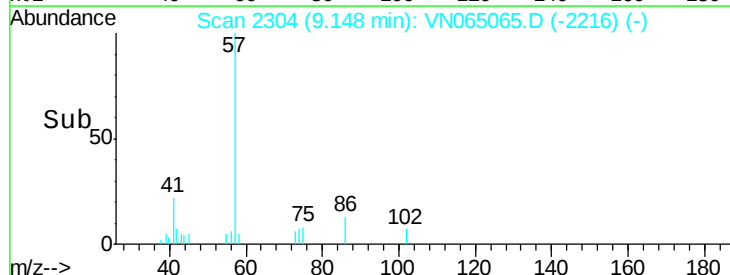
30000

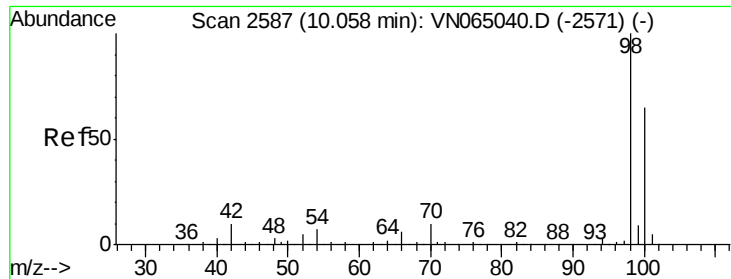
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 50.364 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN065065.D

Acq: 11 Dec 2020 3:24

Instrument :

MSVOA_N

ClientSampleId :

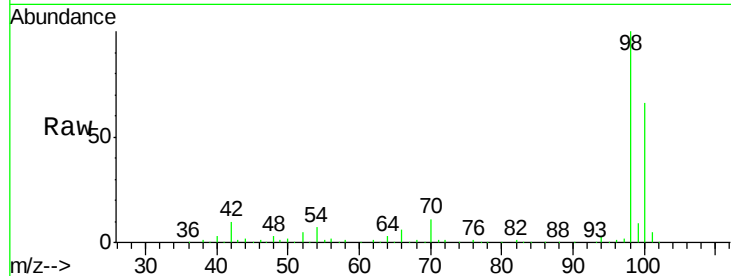
PB133501ZHE#13

Tgt Ion: 98 Resp: 402219

Ion Ratio Lower Upper

98 100

100 64.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN065040.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN065040.D (-2571) (-)

10.06

200000

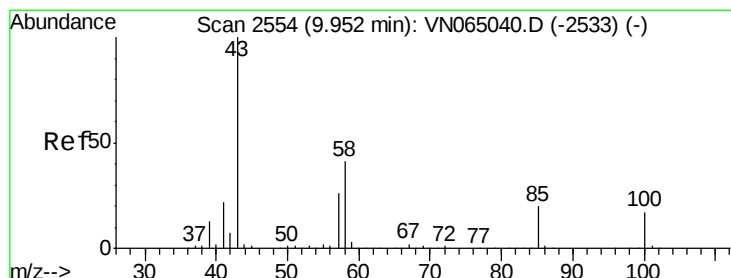
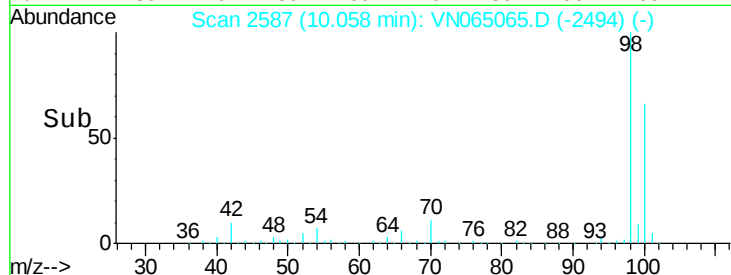
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.307 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN065065.D

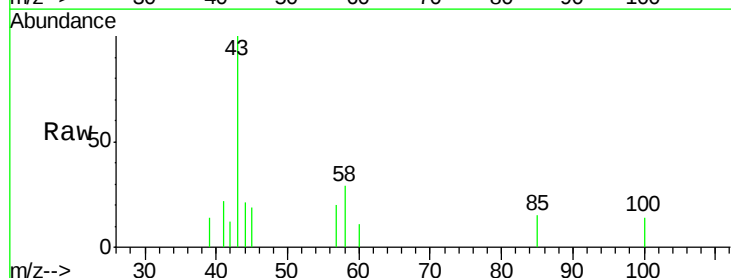
Acq: 11 Dec 2020 3:24

Tgt Ion: 43 Resp: 3169

Ion Ratio Lower Upper

43 100

58 40.1 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN065040.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN065040.D (-2533) (-)

9.95

2500

2000

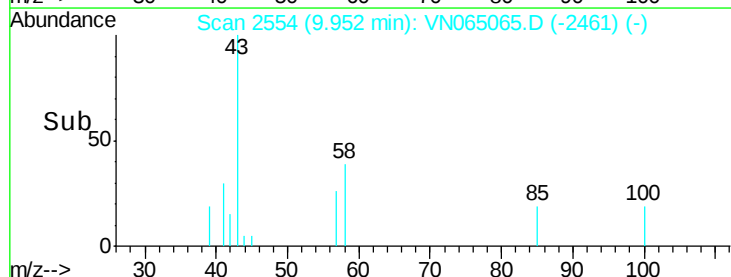
1500

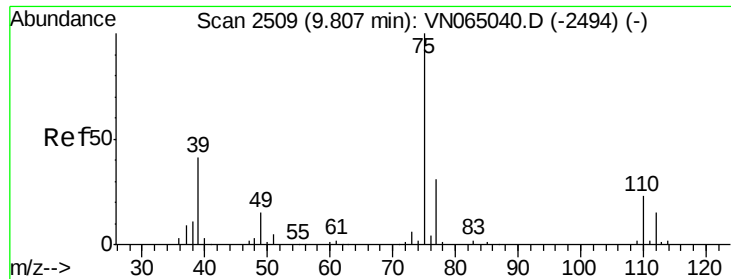
1000

500

0

Time-->



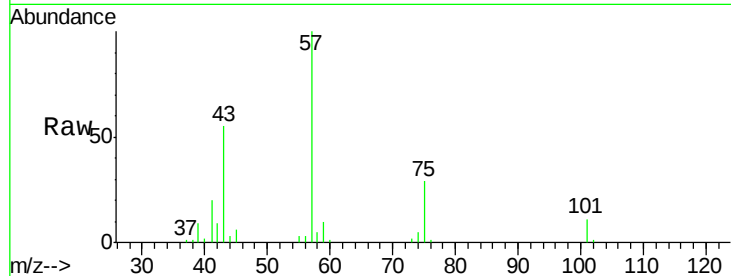


#54

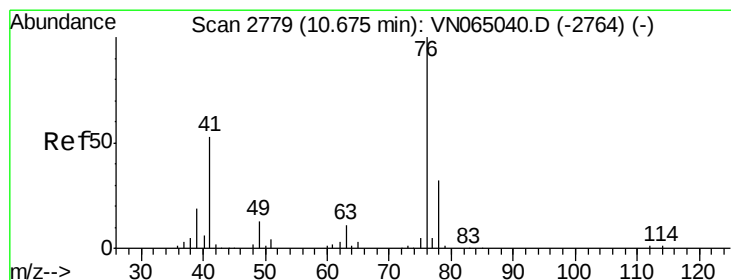
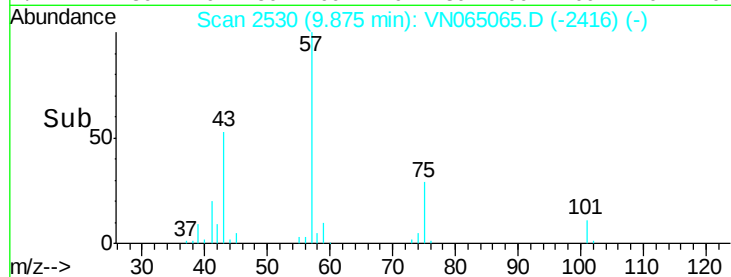
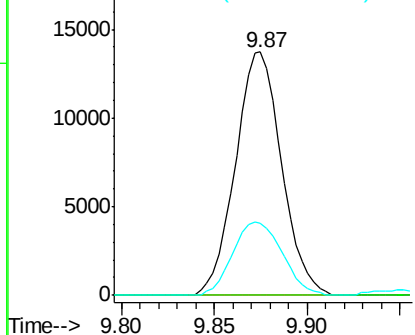
cis-1,3-Dichloropropene
 Concen: 6.652 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN065065.D
 Acq: 11 Dec 2020 3:24

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133501ZHE#13

Tgt Ion: 75 Resp: 23660
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 29.6 33.0 49.4#



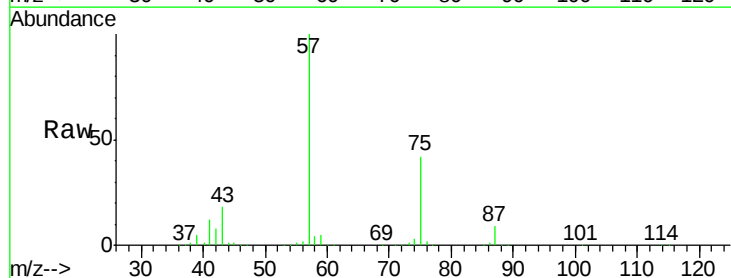
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



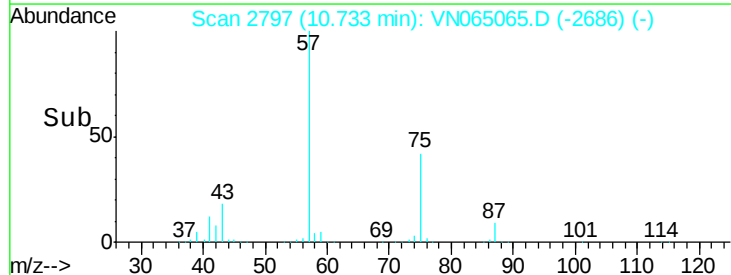
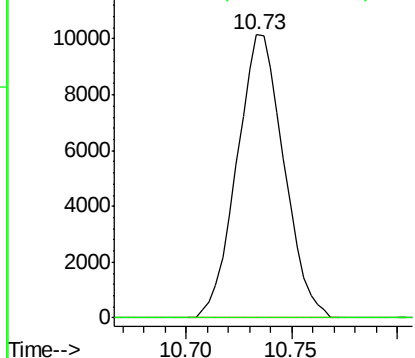
#57

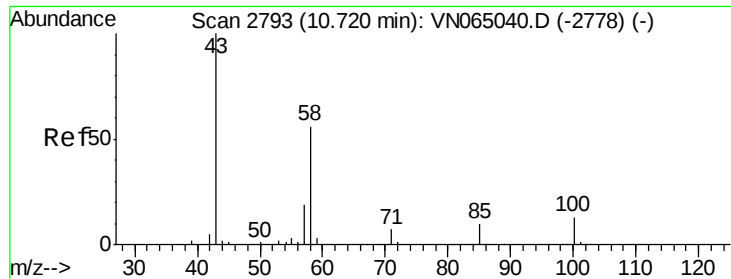
1,3-Dichloropropane
 Concen: 4.420 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN065065.D
 Acq: 11 Dec 2020 3:24

Tgt Ion: 76 Resp: 15682
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.5 39.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

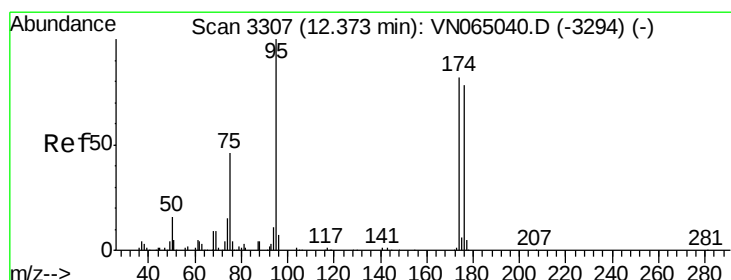
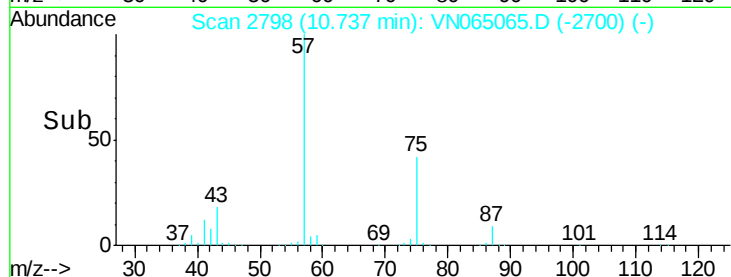
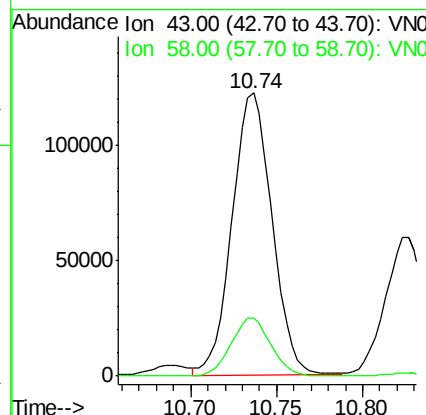
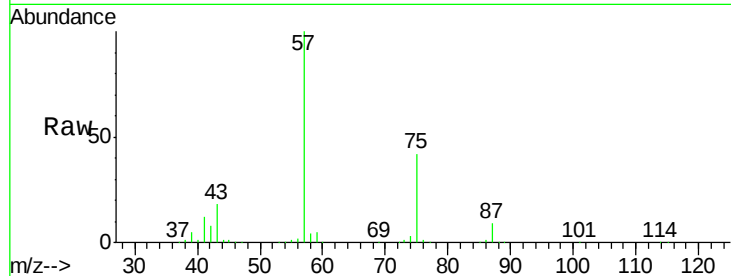




#59
2-Hexanone
Concen: 112.785 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN065065.D
Acq: 11 Dec 2020 3:24

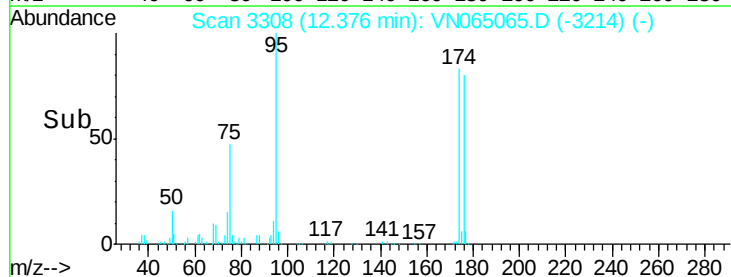
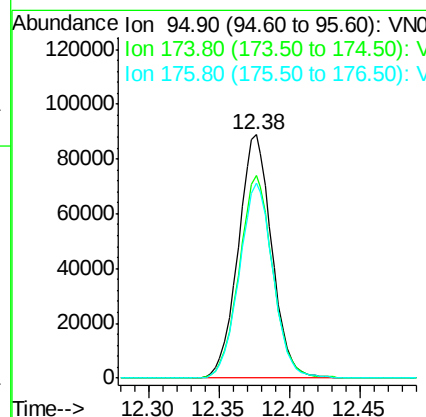
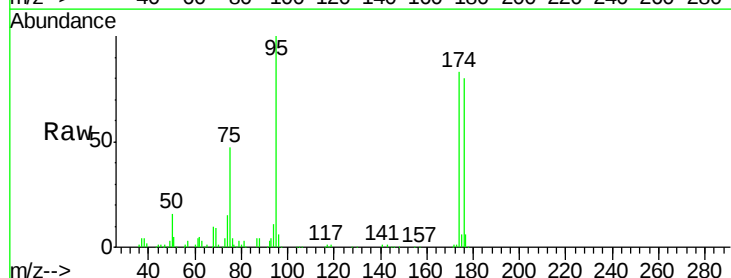
Instrument :
MSVOA_N
ClientSampleId :
PB133501ZHE#13

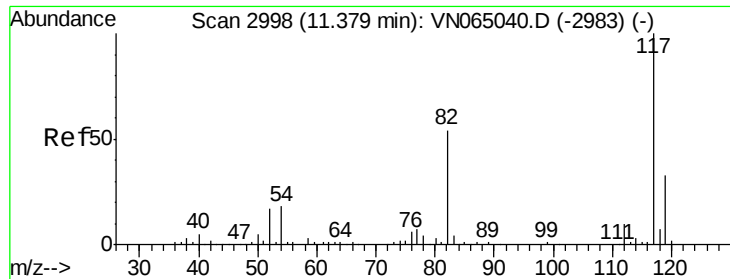
Tgt Ion: 43 Resp: 197043
Ion Ratio Lower Upper
43 100
58 20.6 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 54.182 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065065.D
Acq: 11 Dec 2020 3:24

Tgt Ion: 95 Resp: 148310
Ion Ratio Lower Upper
95 100
174 83.3 0.0 164.8
176 80.5 0.0 158.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN065065.D

Acq: 11 Dec 2020 3:24

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#13

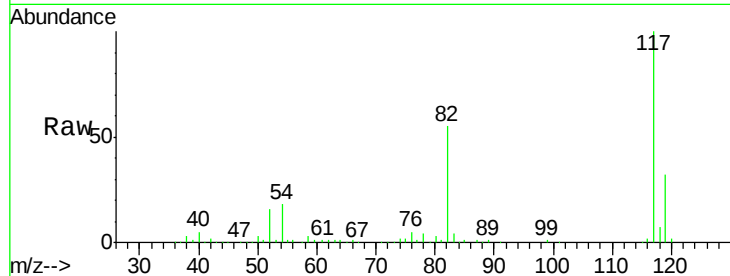
Tgt Ion:117 Resp: 338201

Ion Ratio Lower Upper

117 100

82 55.2 43.5 65.3

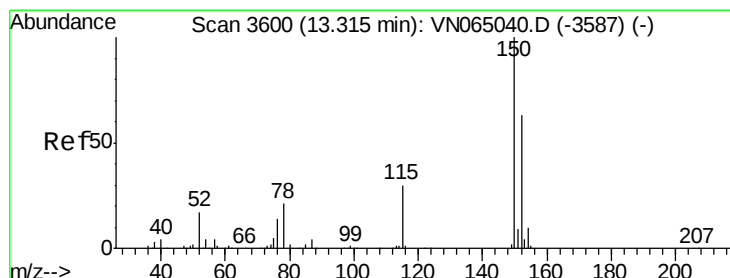
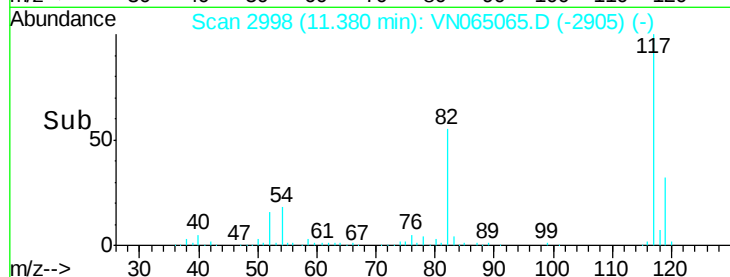
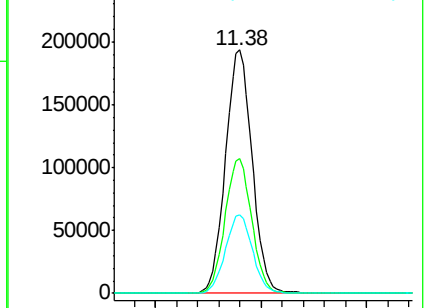
119 32.2 26.4 39.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN065065.D

Acq: 11 Dec 2020 3:24

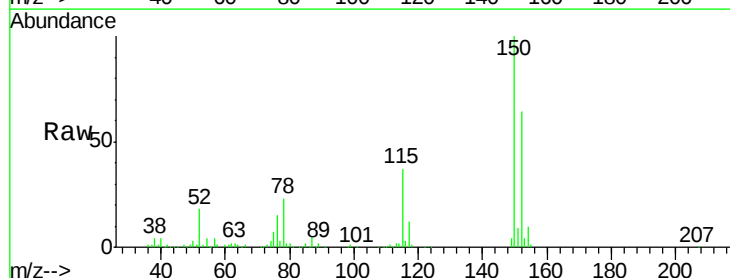
Tgt Ion:152 Resp: 140696

Ion Ratio Lower Upper

152 100

115 57.1 29.3 88.0

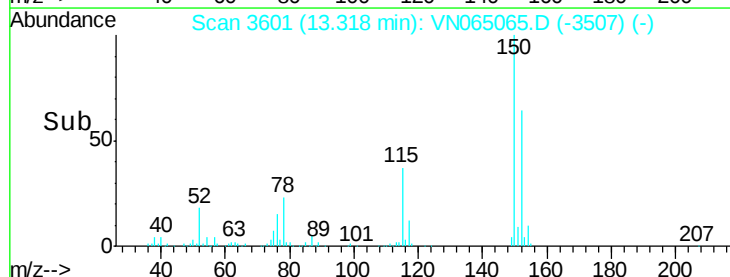
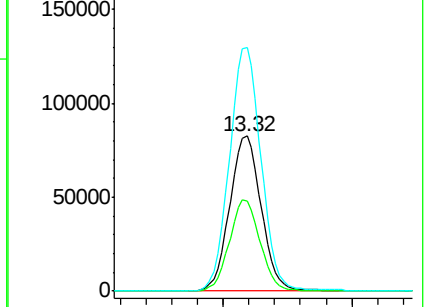
150 156.6 0.0 345.8

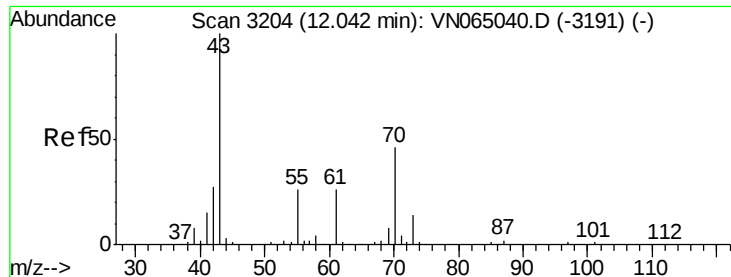


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

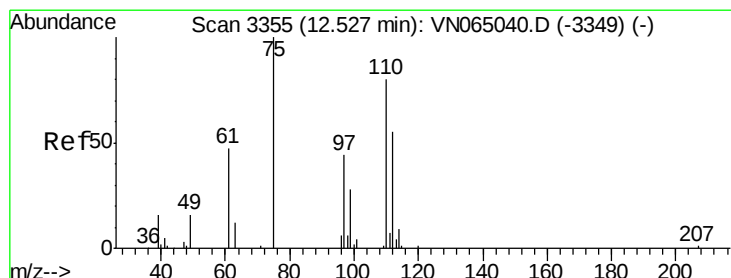
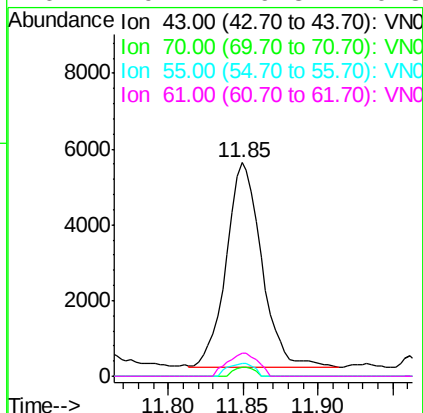
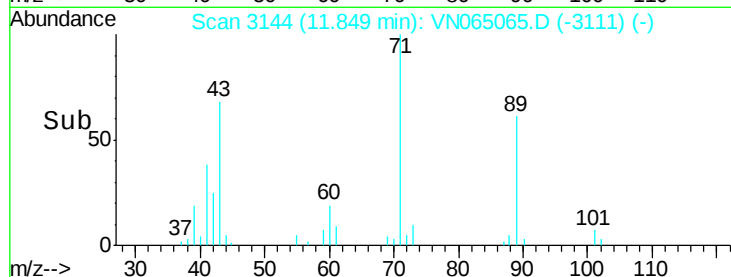
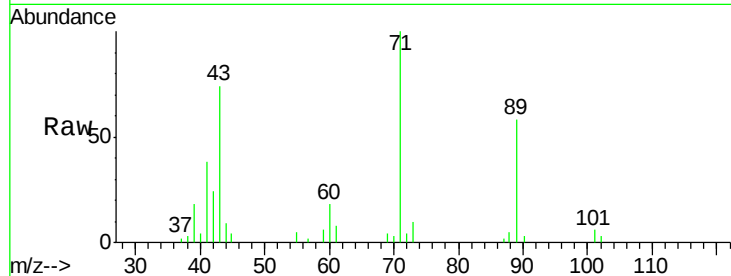




#74
N-ethyl acetate
Concen: 2.675 ug/l
RT: 11.85 min Scan# 3144
Delta R.T. -0.19 min
Lab File: VN065065.D
Acq: 11 Dec 2020 3:24

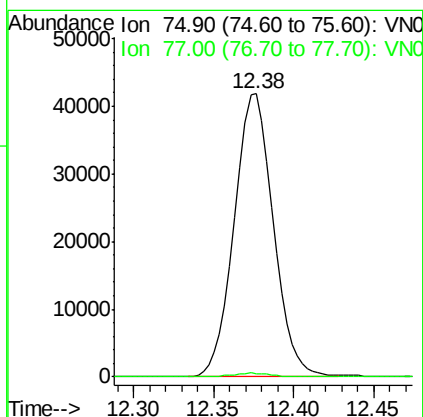
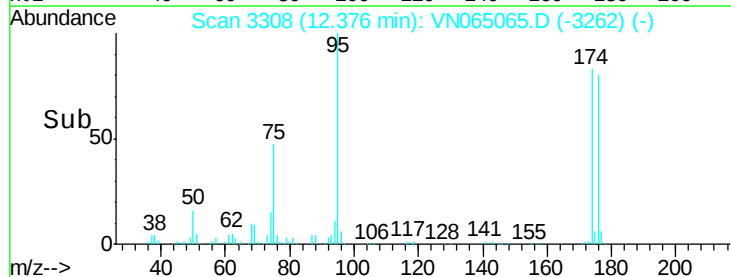
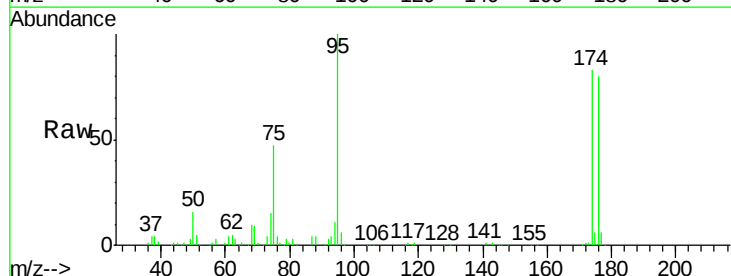
Instrument :
MSVOA_N
ClientSampleId :
PB133501ZHE#13

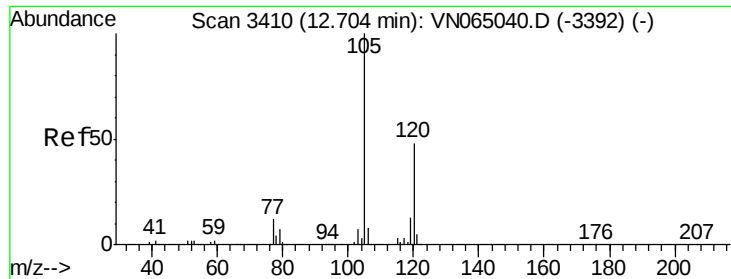
Tgt Ion: 43 Resp: 9014
Ion Ratio Lower Upper
43 100
70 2.5 36.2 54.2#
55 4.6 21.4 32.0#
61 9.7 19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 25.523 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN065065.D
Acq: 11 Dec 2020 3:24

Tgt Ion: 75 Resp: 69948
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#

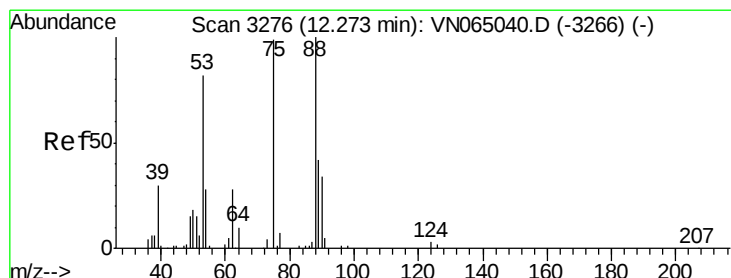
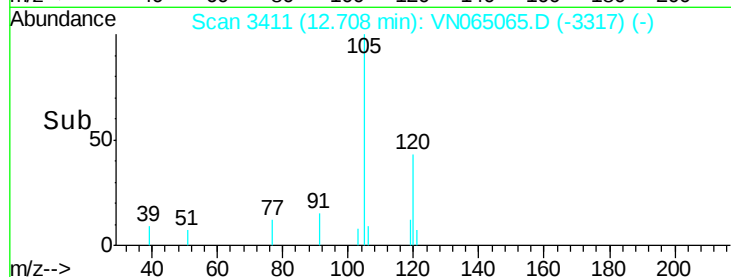
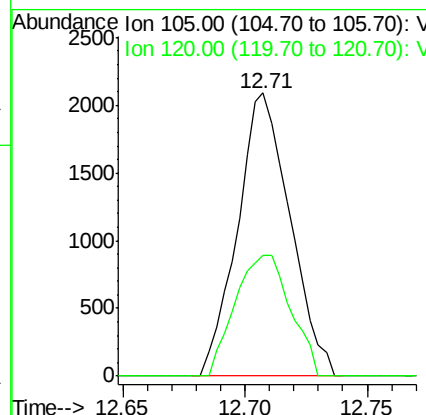
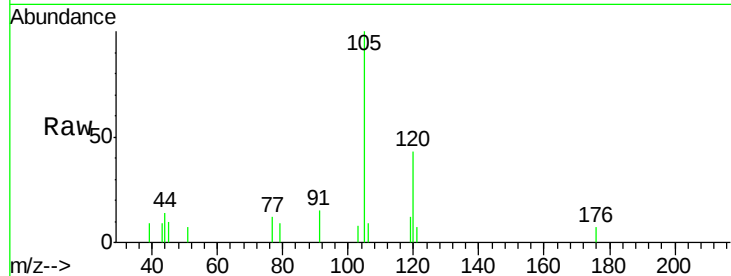




#80
 1,3,5-Trimethylbenzene
 Concen: 0.396 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN065065.D
 Acq: 11 Dec 2020 3:24

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133501ZHE#13

Tgt Ion: 105 Resp: 3119
 Ion Ratio Lower Upper
 105 100
 120 45.0 24.5 73.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.644 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN065065.D
 Acq: 11 Dec 2020 3:24

Tgt Ion: 75 Resp: 69948
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 103.0#
 89 0.0 36.2 54.4#

